

**What the invention claimed are:**

1. A matrix connector having:

a first electrically insulative housing, said first electrically insulative housing comprising a plurality of terminal slots;

a second electrically insulative housing connected to said first electrically insulative housing in a stack, said second electrically insulative housing comprising a plurality of terminal slots respectively axially set in communication with the terminal slots of said first electrically insulative housing; and

a plurality of terminal sets mounted in the terminal slots of said first electrically insulative housing and said second electrically insulative housing, said terminal sets each comprising a terminal holder mounted in one terminal slot of said second electrically insulative housing and a movable terminal mounted in one terminal slot of said first electrically insulative housing, said movable terminal having a front contact portion suspended in a front end of the respective terminal slot of said first electrically insulative housing remote from said second electrically insulative housing and adapted for connecting to a respective solder ball of an integrated circuit, said terminal holder comprising at least one front clamping arm, which clamps on said movable terminal in such a manner that said movable terminal is maintained electrically connected to said

terminal holder and axially slidable relative to said terminal holder, and rear extension portion extended out of the respective terminal slot of said second electrically insulative housing and adapted for connecting to a circuit board.

2. The matrix connector as claimed in claim 1, wherein said first electrically insulative housing has a control space in each of the terminal slots thereof, said control space having a width greater than the diameter of the respective terminal slot; the movable terminal of each said terminal set has a shoulder and an elbow disposed at different elevations and suspended in the control space in the respective terminal slot, said shoulder and said elbow being vertically spaced from each other at a distance smaller than the vertical length of the control space in the respective terminal slot.

3. The matrix connector as claimed in claim 1, wherein the rear extension portion of the terminal holder of each said terminal set is springy.

4. The matrix connector as claimed in claim 2, wherein said first electrically insulative housing is comprised of two insulative members vertically connected together.

5. The matrix connector as claimed in claim 2, wherein the movable terminal of each said terminal set comprises an endpiece downwardly extended from the respective elbow and coupled to the

front clamping arms of the respective terminal holder.

6. The matrix connector as claimed in claim 1, wherein the two front clamping arms of the terminal holder of each said terminal set defines therebetween a guide crevice adapted to receive the respective movable terminal, said guide crevice having a transverse width smaller than the thickness of the respective movable terminal.

7. The matrix connector as claimed in claim 2, wherein said movable terminal comprises an endpiece axially slidably inserted into the guide crevice of the respective terminal holder and maintained in contact with the front clamping arms of the respective terminal holder.

8. The matrix connector as claimed in claim 6, wherein said movable terminal comprises an endpiece axially slidably inserted into the guide crevice of the respective terminal holder and maintained in contact with the front clamping arms of the respective terminal holder.

9. The matrix connector as claimed in claim 2, wherein said terminal sets each further comprise a spring member respectively mounted in the control space in each terminal slot of said first electrically insulative housing and adapted to support the respective movable terminal and to impart an upward pressure to the respective movable terminal.

10. The matrix connector as claimed in claim 9, wherein the spring member of each said terminal set is a compression spring.

11. The matrix connector as claimed in claim 2, wherein the terminal slots of said first electrically insulative housing each have a front end, which has a diameter greater than the diameter of the solder balls of the integrated circuit to which the front contact portions of the movable terminals of said terminal sets are to be connected.

12. A matrix connector comprising:

a first electrically insulative housing, said first electrically insulative housing comprising a plurality of terminal slots;

a second electrically insulative housing connected to said first electrically insulative housing in a stack, said second electrically insulative housing comprising a plurality of terminal slots respectively axially set in communication with the terminal slots of said first electrically insulative housing, and a bottom receiving chamber;

a springy return block mounted in the bottom receiving chamber of said first electrically insulative housing and supporting said first electrically insulative housing on said second electrically insulative housing; and

a plurality of terminal sets mounted in the terminal slots of

said first electrically insulative housing and said second electrically insulative housing, said terminal sets each comprising a terminal holder mounted in one terminal slot of said second electrically insulative housing and a movable terminal mounted in one terminal slot of said first electrically insulative housing, said movable terminal having a front contact portion suspended in a front end of the respective terminal slot of said first electrically insulative housing remote from said second electrically insulative housing and adapted for connecting to a respective solder ball of an integrated circuit, said terminal holder comprising two front clamping arms, which are clamped on said movable terminal in such a manner that said movable terminal is maintained electrically connected to said terminal holder and axially slidable relative to said terminal holder, and rear extension portion extended out of the respective terminal slot of said second electrically insulative housing and adapted for connecting to a circuit board.

13. The matrix connector as claimed in claim 12, wherein said springy return block is a rubber block.

14. The matrix connector as claimed in claim 12, wherein the terminal slots of said first electrically insulative housing each have a front end, which has a diameter greater than the diameter of the solder balls of the integrated circuit to which the front contact

portions of the movable terminals of said terminal sets are to be connected.